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Patent Plaques

JP1136630A2: ENDOSCOPIC APPARATUS FOR FLUORESCENT OBSERVATION

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Country: **JP** Japan

Kind:

Inventor(s): **TAKANO AKIRA**

Applicant(s): **OLYMPUS OPTICAL CO LTD**
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Issued/Filed Dates: **May 29, 1989** / Nov. 25, 1987

Application Number: **JP1987000296724**

IPC Class: **A61B 5/00;** A61B 1/00; A61B 1/04;

Abstract: **Purpose**: To efficiently allow exciting light to irradiate and to easily observe only a fluorescent image, by shielding the reflected light from an object of exciting light and observing only fluorescence transmitting through the exciting light shielding means by an imaging means.
Constitution: The exciting light of 500nm or less transmitting through an FITC interference filter 42 is incident to the incident end of the light guide 29 of an endoscope 1 and guided to the leading end part 9 of the endoscope 1 by the light guide 29 to irradiate an object 70 such as the organ of a living body from the leading end part 29. Herein, when fluorescence is projected on the living body, fluorescence of 525nm is emitted from a blood flow part 71 and incident to the objective lens system 21 of the endoscope 1 along with the exciting light reflected from the surface of the object 70. An exciting light absorbing filter 27 is interposed between the objective lens system 21 and a CCD 23. Therefore, light having a wavelength of about 500nm or less, that is, exciting light is absorbed by the exciting light absorbing filter 27 and only fluorescence is almost incident to the CCD 23.
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Other Abstract Info: none

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